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=> S SCHIZOPHRENIA  
L2 89411 SCHIZOPHRENIA

=> S L2 AND D4 RECEPTOR  
L3 254 L2 AND D4 RECEPTOR

=> DUP REM L3  
PROCESSING COMPLETED FOR L3  
L4 187 DUP REM L3 (67 DUPLICATES REMOVED)

=> S L4 AND (METHYL OR METHYLATION)  
L5 14 L4 AND (METHYL OR METHYLATION)

=> D 1

L5 ANSWER 1 OF 14 MEDLINE  
AN 2002089462 IN-PROCESS  
DN 21675145 PubMed ID: 11817497  
TI The discovery of PD 89211 and related compounds: selective dopamine  
**D4 receptor** antagonists.  
AU Pugsley Thomas A; Shih Yu Hsin; Whetzel Steven Z; Zoski Kim; Van Leeuwen  
Don; Akunne Hyacinth; Mackenzie R; Heffner Thomas G; Wustrow David; Wise  
Lawrence D  
CS CNS Pharmacology and Chemistry, Pfizer Global Research and Development,  
Ann Arbor, MI 48105, USA.. thomas.pugsley@pfizer.com  
SO PROGRESS IN NEURO-PSYCHOPHARMACOLOGY AND BIOLOGICAL PSYCHIATRY, (2002 Feb)  
26 (2) 219-26.  
Journal code: 8211617. ISSN: 0278-5846.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS IN-PROCESS; NONINDEXED; Priority Journals  
ED Entered STN: 20020131  
Last Updated on STN: 20020131

=> D 2

L5 ANSWER 2 OF 14 MEDLINE  
AN 2001178227 MEDLINE  
DN 21067396 PubMed ID: 11150701  
TI Carbon-11 pb-12: an attempt to visualize the dopamine d(4) receptor in the primate brain with positron emission tomography.  
AU Langer O; Halldin C; Chou Y; Sandell J; Swahn C; Nagren K; Perrone R; Berardi F; Leopoldo M; Farde L  
CS Karolinska Institute, Department of Clinical Neuroscience, Psychiatry Section, Karolinska Hospital, Stockholm, Sweden.. oliver.langer@psyk.ks.se  
NC 41205  
SO NUCLEAR MEDICINE AND BIOLOGY, (2000 Nov) 27 (8) 707-14.  
Journal code: BOO; 9304420. ISSN: 0969-8051.  
CY England: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200103  
ED Entered STN: 20010404  
Last Updated on STN: 20010404  
Entered Medline: 20010329

=> D 3

L5 ANSWER 3 OF 14 MEDLINE  
AN 2001150975 MEDLINE  
DN 21103626 PubMed ID: 11170639  
TI Current and novel approaches to the drug treatment of **schizophrenia**.  
AU Rowley M; Bristow L J; Hutson P H  
CS Merck Sharp and Dohme, The Neuroscience Research Centre, Terlings Park, Eastwick Road, Harlow, Essex CM20 2QR, UK.. Michael.Rowley@Merck.com  
SO JOURNAL OF MEDICINAL CHEMISTRY, (2001 Feb 15) 44 (4) 477-501. Ref: 283  
Journal code: JOF; 9716531. ISSN: 0022-2623.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, ACADEMIC)  
LA English  
FS Priority Journals  
EM 200103  
ED Entered STN: 20010404  
Last Updated on STN: 20010404  
Entered Medline: 20010315

=> D 4

L5 ANSWER 4 OF 14 MEDLINE  
AN 2000281457 MEDLINE  
DN 20281457 PubMed ID: 10820134  
TI Metabolism of A dopamine D(4)-selective antagonist in rat, monkey, and humans: formation of A novel mercapturic acid adduct.  
AU Zhang K E; Kari P H; Davis M R; Doss G; Baillie T A; Vyas K P  
CS Department of Drug Metabolism, Merck Research Laboratories, West Point, Pennsylvania and Rahway, New Jersey, USA.  
SO DRUG METABOLISM AND DISPOSITION, (2000 Jun) 28 (6) 633-42.  
Journal code: EBR; 9421550. ISSN: 0090-9556.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals

EM 200007  
ED Entered STN: 20000811  
Last Updated on STN: 20000811  
Entered Medline: 20000731

=> D 5

L5 ANSWER 5 OF 14 MEDLINE  
AN 1999410512 MEDLINE  
DN 99410512 PubMed ID: 10479303  
TI Design, synthesis, and evaluation of chromen-2-ones as potent and selective human dopamine D4 antagonists.  
AU Kesten S R; Heffner T G; Johnson S J; Pugsley T A; Wright J L; Wise L D  
CS Departments of Chemistry and Therapeutics, Parke-Davis Pharmaceutical Research, Division of Warner-Lambert Company, 2800 Plymouth Road, Ann Arbor, Michigan 48105, USA.  
SO JOURNAL OF MEDICINAL CHEMISTRY, (1999 Sep 9) 42 (18) 3718-25.  
Journal code: JOF; 9716531. ISSN: 0022-2623.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199910  
ED Entered STN: 19991026  
Last Updated on STN: 19991026  
Entered Medline: 19991014

=> D 6

L5 ANSWER 6 OF 14 MEDLINE  
AN 1999321136 MEDLINE  
DN 99321136 PubMed ID: 10395213  
TI D4 dopamine receptor-mediated phospholipid **methylation** and its implications for mental illnesses such as **schizophrenia**.  
AU Sharma A; Kramer M L; Wick P F; Liu D; Chari S; Shim S; Tan W; Ouellette D; Nagata M; DuRand C J; Kotb M; Deth R C  
CS Department of Pharmaceutical Sciences, Northeastern University, Boston, Massachusetts 02115, USA.  
SO MOLECULAR PSYCHIATRY, (1999 May) 4 (3) 235-46.  
Journal code: CUM; 9607835. ISSN: 1359-4184.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199909  
ED Entered STN: 19990925  
Last Updated on STN: 20000303  
Entered Medline: 19990913

=> D 7

L5 ANSWER 7 OF 14 MEDLINE  
AN 1998034296 MEDLINE  
DN 98034296 PubMed ID: 9369363  
TI Dopamine **D4 receptor** and anxiety: behavioural profiles of clozapine, L-745,870 and L-741,742 in the mouse plus-maze.  
AU Cao B J; Rodgers R J  
CS Ethopharmacology Laboratory, School of Psychology, University of Leeds, UK.  
SO EUROPEAN JOURNAL OF PHARMACOLOGY, (1997 Sep 24) 335 (2-3) 117-25.  
Journal code: EN6; 1254354. ISSN: 0014-2999.

CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199712  
ED Entered STN: 19980109  
Last Updated on STN: 19990129  
Entered Medline: 19971222

=> D 8

L5 ANSWER 8 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 2001:447931 BIOSIS  
DN PREV200100447931  
TI Genetic animal models: Focus on **schizophrenia**.  
AU Gainetdinov, Raul R. (1); Mohn, Amy R. (1); Caron, Marc G. (1)  
CS (1) Depts of Cell Biology and Medicine, Howard Hughes Medical Institute  
Laboratories, Duke University Medical Center, Durham, NC, 27710:  
caron002@mc.duke.edu USA  
SO Trends in Neurosciences, (September, 2001) Vol. 24, No. 9, pp. 527-533.  
print.  
ISSN: 0166-2236.  
DT General Review  
LA English  
SL English

=> D 9

L5 ANSWER 9 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 2001:273237 BIOSIS  
DN PREV200100273237  
TI 2,4-diaminopyrimidine derivatives as dopamine **D4 receptor**  
antagonist.  
AU Bosmans, Jean-Paul Rene Marie Andre (1); Love, Christopher John; Van  
Lommen, Guy Rosalia Eugene  
CS (1) Rijkevorsel Belgium  
ASSIGNEE: Janssen Pharmaceutica N. V., Belgium  
PI US 6159982 December 12, 2000  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(Dec. 12, 2000) Vol. 1241, No. 2, pp. No Pagination. e-file.  
ISSN: 0098-1133.  
DT Patent  
LA English

=> D 10

L5 ANSWER 10 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 2001:119270 BIOSIS  
DN PREV200100119270  
TI Methods and materials for the diagnosis and treatment of  
**schizophrenia** and related disorders.  
AU Deth, Richard C. (1)  
CS (1) Waban, MA USA  
ASSIGNEE: Northeastern University  
PI US 6080549 June 27, 2000  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(June 27, 2000) Vol. 1235, No. 4, pp. No Pagination. e-file.  
ISSN: 0098-1133.  
DT Patent  
LA English

=> D 11

L5 ANSWER 11 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 2000:542938 BIOSIS  
DN PREV200000542938  
TI trans-1-((2-phenylcyclopropyl)**methyl**)-4-arylpiperazines: Mixed  
dopamine D2/D4 **receptor** antagonists as potential  
antipsychotic agents.  
AU Zhang, Xiaoyan; Hodgetts, Kevin; Rachwal, Stanislaw; Zhao, He; Wasley, Jan  
W. F.; Craven, Kimberly; Brodbeck, Robbin; Kieltyka, Andrzej; Hoffman,  
Diane; Bacolod, Maria D.; Girard, Brian; Tran, Jennifer; Thurkauf, Andrew  
(1)  
CS (1) Neurogen Corporation, 35 Northeast Industrial Road, Branford, CT,  
06405 USA  
SO Journal of Medicinal Chemistry, (October 19, 2000) Vol. 43, No. 21, pp.  
3923-3932. print.  
ISSN: 0022-2623.  
DT Article  
LA English  
SL English

=> D 12

L5 ANSWER 12 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 2000:289799 BIOSIS  
DN PREV200000289799  
TI N- **methyl** piperazine compounds having dopamine receptor  
affinity.  
AU Fu, Jian-Min (1); Rakhit, Sumanas  
CS (1) Brampton Canada  
ASSIGNEE: Allelix Biopharmaceuticals  
PI US 5968478 October 19, 1999  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(Oct. 19, 1999) Vol. 1227, No. 3, pp. No pagination. e-file.  
ISSN: 0098-1133.  
DT Patent  
LA English

=> D 13

L5 ANSWER 13 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 2000:212080 BIOSIS  
DN PREV200000212080  
TI Effects of D4 **receptor** antagonists on phospholipid  
**methylation** stimulated by varied concentrations of dopamine.  
AU Tan, W. (1); Deth, R. C. (1)  
CS (1) Department of Pharmaceutical Sciences, Northeastern University,  
Boston, MA, 02115 USA  
SO Society for Neuroscience Abstracts, (1999) Vol. 25, No. 1-2, pp. 1570.  
Meeting Info.: 29th Annual Meeting of the Society for Neuroscience. Miami  
Beach, Florida, USA October 23-28, 1999 Society for Neuroscience  
. ISSN: 0190-5295.  
DT Conference  
LA English  
SL English

=> D 14

L5 ANSWER 14 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
AN 1997:532037 BIOSIS

DN PREV199799831240  
TI D4 dopamine receptor-dependent phospholipid **methylation** is  
interrelated to nucleoside biosynthesis.  
AU Deth, R. C.; Wick, P. F.; Chari, S.; Shim, S.; Sharma, A.  
CS Dep. Pharmaceutical Sci., Northeastern Univ., Boston, MA 02115 USA  
SO Society for Neuroscience Abstracts, (1997) Vol. 23, No. 1-2, pp. 1929.  
Meeting Info.: 27th Annual Meeting of the Society for Neuroscience New  
Orleans, Louisiana, USA October 25-30, 1997  
ISSN: 0190-5295.  
DT Conference; Abstract; Conference  
LA English